

[LI 0216]

FEBRUARY 2016

Sub. Code: 5002

B.Sc. MEDICAL LABORATORY TECHNOLOGY

FIRST YEAR

PAPER II – BASIC CHEMISTRY

Q.P. Code: 725002

Time : Three Hours

Maximum: 100 Marks

Answer all questions

I. Elaborate on:

(3 x 10 = 30)

1. Properties, biological functions of phospholipids and steroids.
2. Chemistry and biological role of vitamins and trace elements.
3. Estimation of cholesterol and serum proteins.

II. Write Notes on:

(8 x 5 = 40)

1. Theories of acids and bases.
2. Biological importance of carbohydrates.
3. Classifications of proteins.
4. RNA and their functions
5. Factors affecting enzyme reactions.
6. BMR and polypeptides.
7. Partition Chromatography.
8. Colour reactions of proteins.

III. Short Answers on:

(10 x 3 = 30)

1. Buffer solutions.
2. Hydrolytic products of protein.
3. Classification of lipids.
4. Benedict's test
5. Co Enzymes.
6. Essential fatty acids.
7. Nitrogen balance.
8. Electrophoresis.
9. Cholesterol oxidase method.
10. Cysteine.
